

The listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A communication method used in a wireless communication system which includes both a repeater relay station of a wireless communication network using repeater system and a frequency division multiple access (FDMA) relay station of a wireless communication network using FDMA system, the method comprising the steps of:

receiving a call signal from a repeater wireless terminal in the wireless communication network using repeater system, by the repeater relay station;

connecting the repeater relay station to the FDMA relay station by a line to forward the call signal received by the repeater relay station to the FDMA relay station after adding a relay station identifier and relay station communication information to the received call signal;

setting the forwarded call signal [[for]] in a terminal control information field in a control signal and setting auxiliary information in a system information field in the control signal at the FDMA relay station;

transmitting the control signal to an FDMA wireless terminal in the wireless communication network using FDMA system;

detecting by the FDMA wireless terminal, which has received the control signal having the terminal control information field and system information field, the call signal being from the repeater wireless terminal and a downlink frequency (e.g.,  $f_2$ ) of the repeater relay station, on the basis of the received control signal;

switching by the FDMA wireless terminal its own reception frequency from a downlink frequency (e.g.,  $f_3$ ) of the FDMA relay station to the downlink frequency (e.g.,  $f_2$ ) of the repeater relay station;

relay-transmitting by the repeater relay station a voice signal contained in a signal transmitted by the repeater wireless terminal to the downlink frequency (e.g.,  $f_2$ ); and

receiving the voice signal from the repeater wireless terminal by the FDMA wireless terminal whose reception frequency has been changed to the downlink frequency (e.g.,  $f_2$ ) so that the FDMA wireless terminal communicates via the repeater relay station with the repeater wireless terminal,

wherein the call signal to be transmitted from the repeater wireless terminal to the repeater relay station, the call signal to be transmitted from the repeater relay station to the FDMA relay station and the call signal to be transmitted from the FDMA relay station to the FDMA wireless terminal are carried by using respective distinct signal formats.

2. (Currently Amended) A wireless communication system which includes both a repeater relay stations of a wireless communication network using repeater system and an FDMA relay station of a wireless communication network using FDMA system, the system comprising:

means for receiving a call signal from a repeater wireless terminal in the wireless communication network using repeater system, by the repeater relay station;

means for forwarding the call signal received by the repeater relay station to the FDMA relay station connected to the repeater relay station by a line, after adding a relay station identifier and relay station communication information to the received call signal;

means for setting the forwarded call signal [[for]] in a terminal control information field in a control signal and for setting auxiliary information in a system information field in the control signal at the FDMA relay station;

means for transmitting the control signal to an FDMA wireless terminal in the wireless communication network using FDMA system;

means for detecting by the FDMA wireless terminal, which has received the control signal having the terminal control information field and the system information

field, the call signal being from the repeater wireless terminal and a downlink frequency (e.g., f2) of the repeater relay station, on the basis of the received control signal;

means for switching by the FDMA wireless terminal its own reception frequency from a downlink frequency (e.g., f3) of the FDMA relay station to the downlink frequency (e.g., f2) of the repeater relay station;

means for relay-transmitting by the repeater relay station a voice signal contained in a signal transmitted by the repeater wireless terminal to the downlink frequency (e.g., f2); and

means for receiving the voice signal from the repeater wireless terminal by the FDMA wireless terminal whose reception frequency has been changed to the downlink frequency (e.g., f2) so that the FDMA wireless terminal communicates via the repeater relay station with the repeater wireless terminal,

wherein the call signal to be transmitted from the repeater wireless terminal to the repeater relay station, the call signal to be transmitted from the repeater relay station to the FDMA relay station and the call signal to be transmitted from the FDMA relay station to the FDMA wireless terminal are carried by using respective distinct signal formats.

3. (Currently Amended) An FDMA wireless terminal to be used in a business wireless communication system which includes both a repeater relay station of a wireless communication network using repeater system and an FDMA relay station of a wireless communication network using FDMA system,

wherein the repeater relay station and the FDMA relay station are connected to each other by a line, ~~the FDMA relay station sets~~ repeater relay station, which has received a call signal from a repeater wireless terminal in the wireless communication network using repeater system, ~~which has been forwarded from the repeater relay station, for a control signal;~~ forwards the received call signal to the FDMA relay station after adding a relay station identifier and relay station communication information to the received call signal; the FDMA relay station sets the call signal forwarded from the

repeater relay station in a terminal control information field in a control signal and sets auxiliary information in a system information field in the control signal to transmit the control signal to an FDMA wireless terminal in the wireless communication network using FDMA system; and the FDMA wireless terminal in the wireless communication network using FDMA system has means for receiving the control signal sent thereto to communicate with the repeater wireless terminal via the repeater relay station, wherein the call signal to be transmitted from the repeater wireless terminal to the repeater relay station, the call signal to be transmitted from the repeater relay station to the FDMA relay station and the call signal to be transmitted from the FDMA relay station to the FDMA wireless terminal are carried by using respective distinct signal formats,

wherein the FDMA wireless terminal, which has received the control signal having the terminal control information field and the system information field, operates to detect the call signal being from the repeater wireless terminal and a downlink frequency (e.g.,  $f_2$ ) of the repeater relay station, on the basis of the received control signal, and further operates to switch its own reception frequency from a downlink frequency (e.g.,  $f_3$ ) of the FDMA relay station to the downlink frequency (e.g.,  $f_2$ ) of the repeater relay station, and

wherein the repeater relay station operates to relay-transmit a voice signal contained in a signal transmitted by the repeater wireless terminal to the downlink frequency (e.g.,  $f_2$ ), and the FDMA wireless terminal whose reception frequency has been changed to the downlink frequency (e.g.,  $f_2$ ) operates to receive the voice signal transmitted from the repeater wireless terminal so that the FDMA wireless terminal communicates via the repeater relay station with the repeater wireless terminal.

4. (Previously Presented) The communication method according to claim 1, wherein the signal format for the call signal from the repeater wireless terminal to the repeater relay station comprises a call classifier and a terminal identifier, the signal format for the call signal from the repeater relay station to the FDMA relay station comprises a synchronous signal pattern, a call classifier, a terminal identifier, a relay

station identifier and information added by relay station, and the format for the call signal from the FDMA relay station to the FDMA wireless terminal comprises a synchronous signal pattern, system information and terminal control information.